

FIGURE 1A

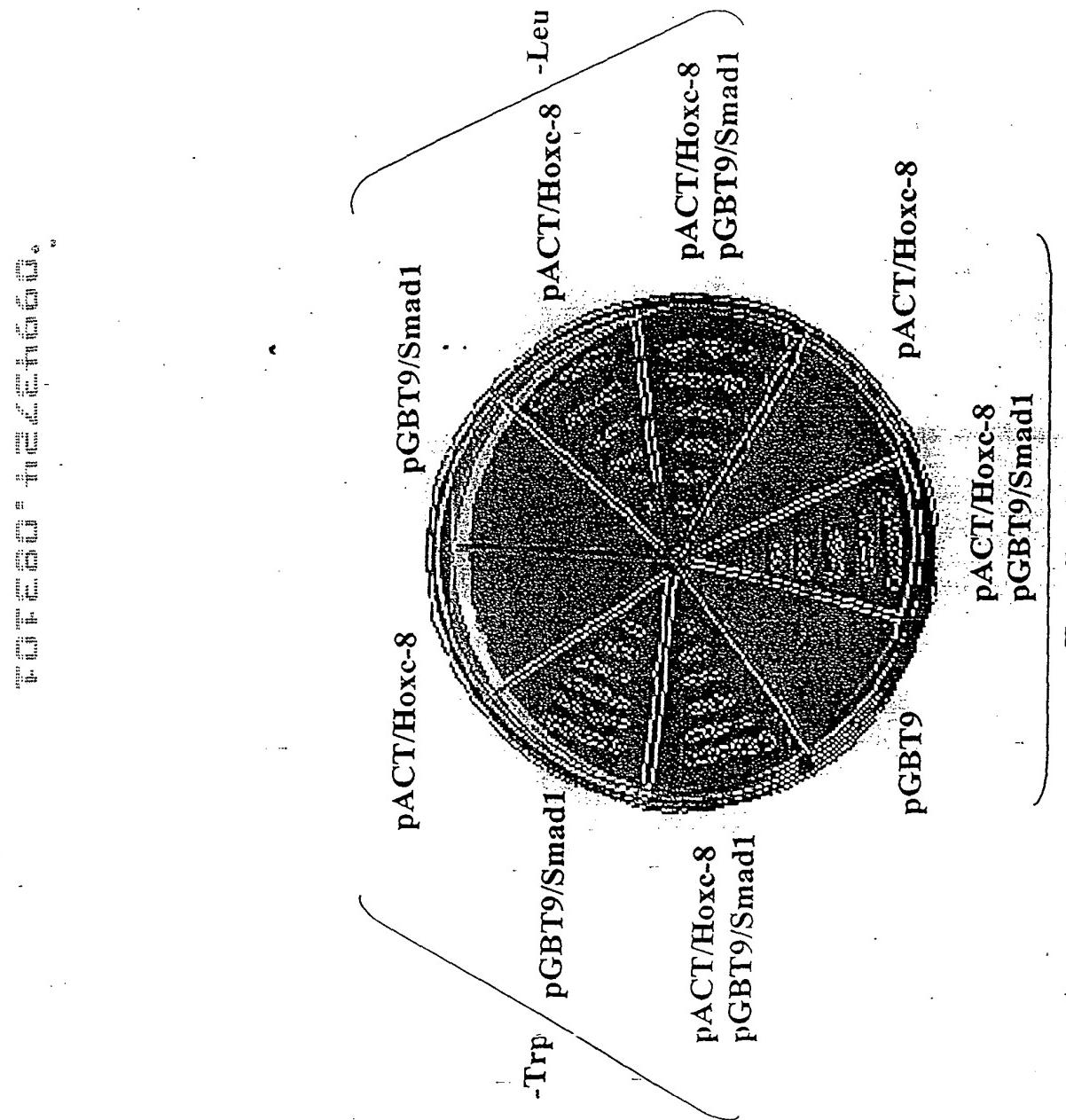


Figure 1B: Relative β -galactosidase activity for various constructs.

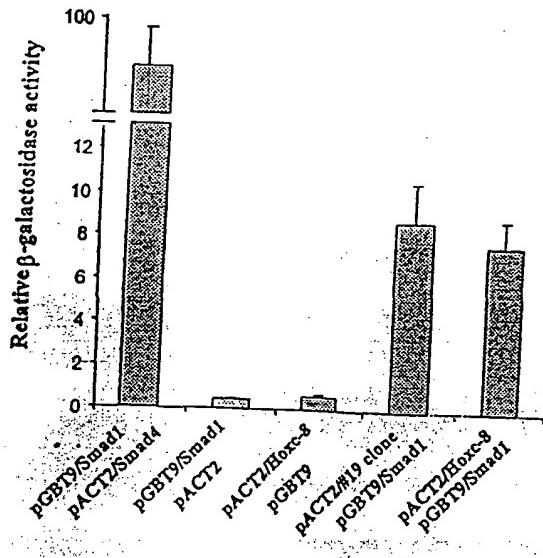
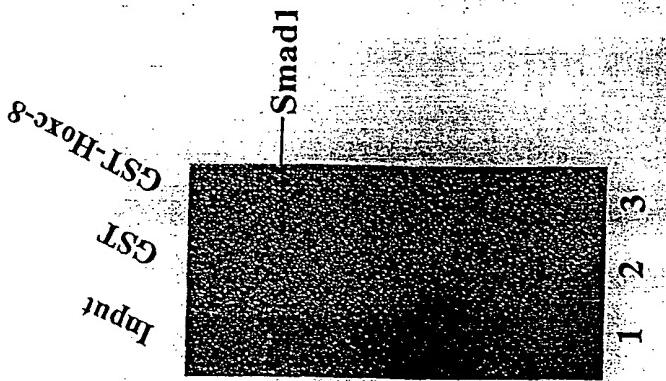


FIGURE 1B

FIGURE 1C



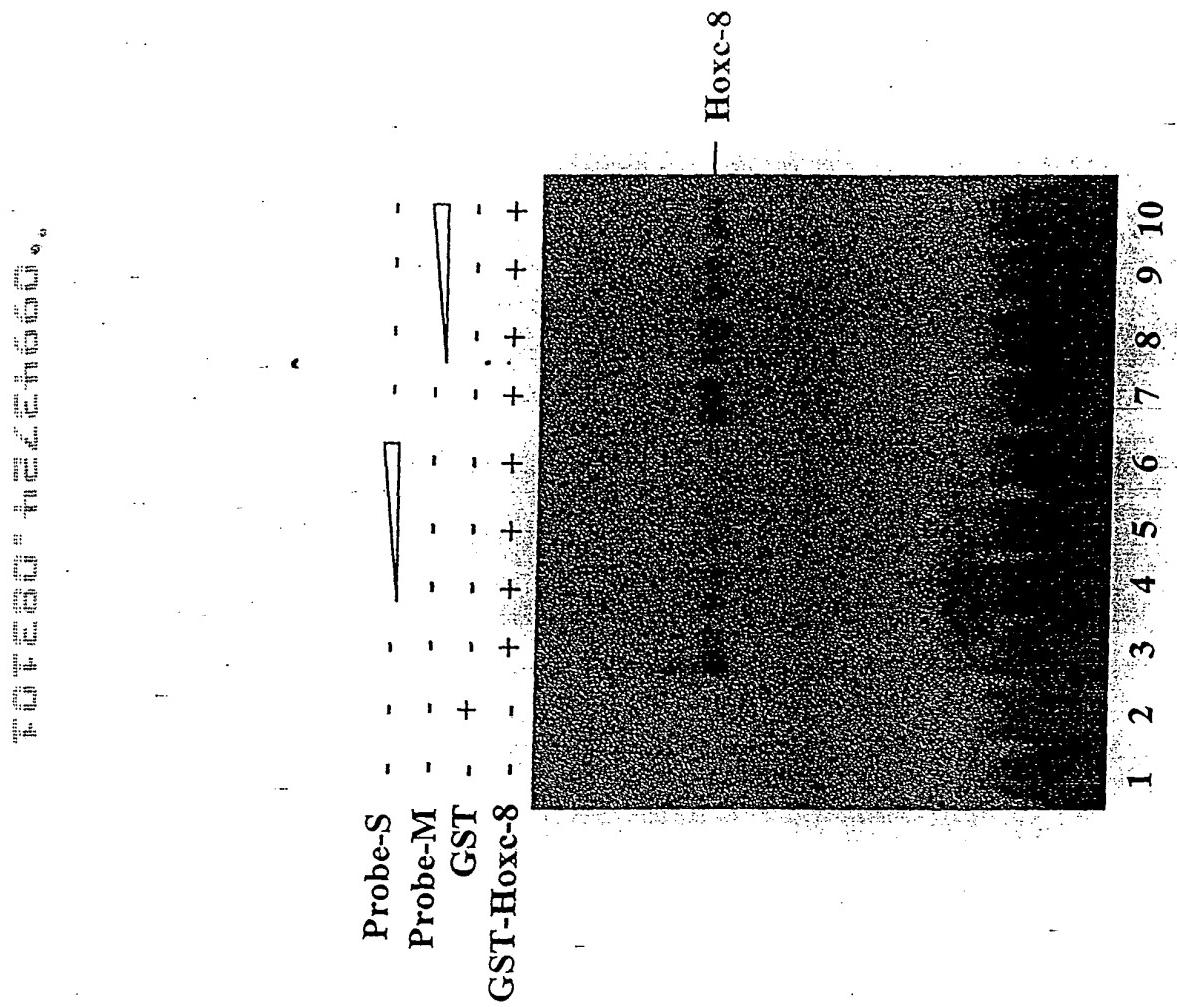
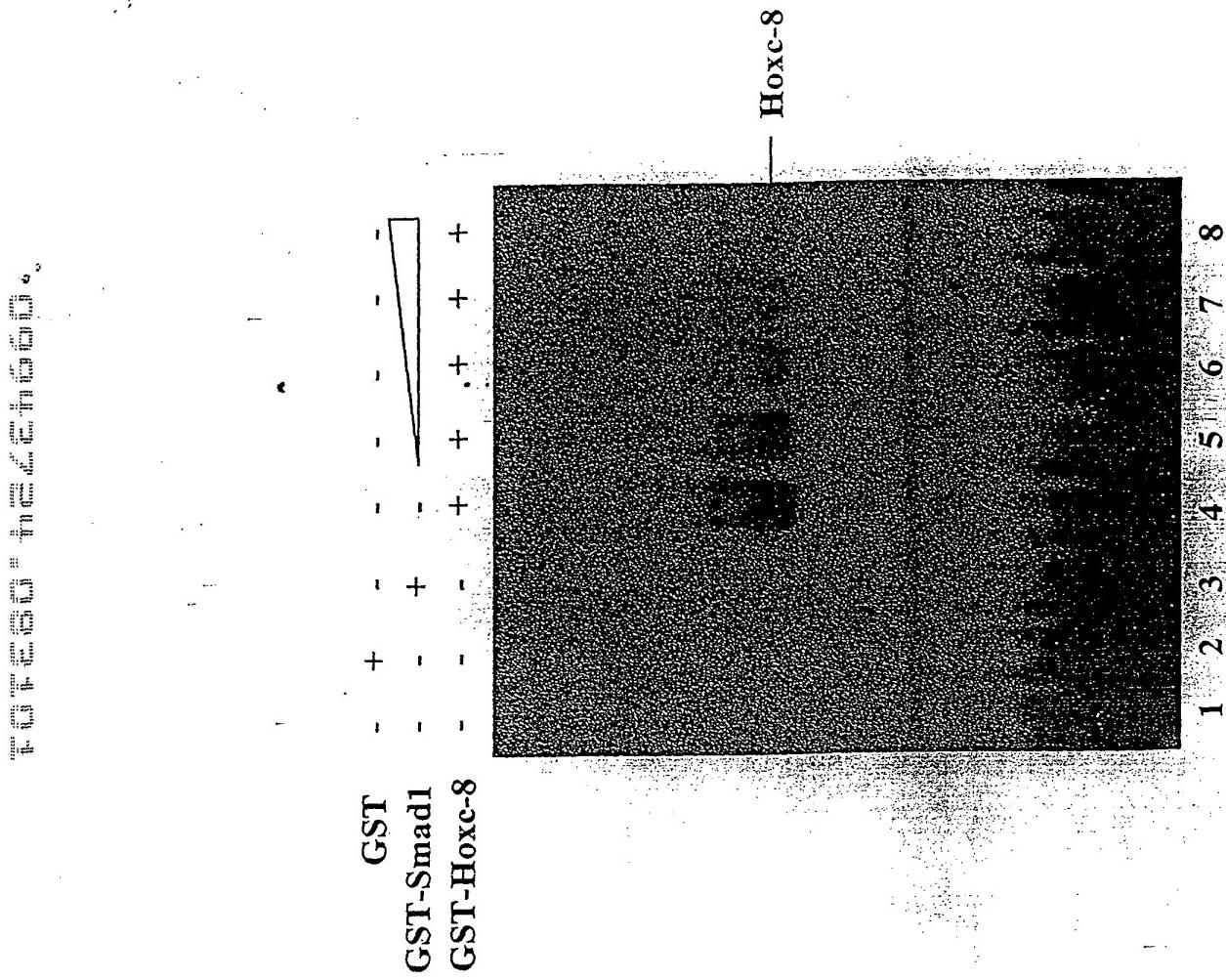


FIGURE 2A

FIGURE 2B



pcDNA3	+	-	-	-	-	-	-	-
Flag-Smad1	-	+	+	+	-	-	+	+
Flag-Smad4	-	+	-	-	+	+	+	+
ALK3(Q233D)	-	-	-	+	-	+	-	+
HA-Hoxc-8	-	-	+	+	+	+	+	+

IP: anti-HA

IB: anti-Flag

← Smad4
← Smad1
← IgG

Western:

anti-Flag

← Smad4
← Smad1

anti-HA

← Hoxc-8

1 2 3 4 5 6 7 8

PCP R E S U L T S

FIGURE 2C

TTAT TTAT TAAT TTAT TAAT -170
-382 -300 -300 -300 -300 -300

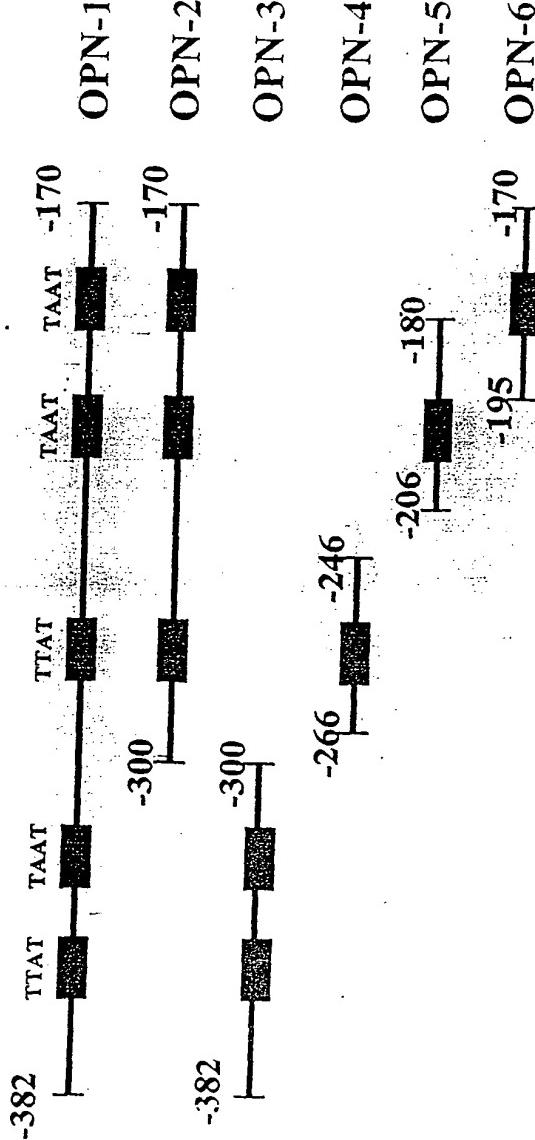


FIGURE 3A

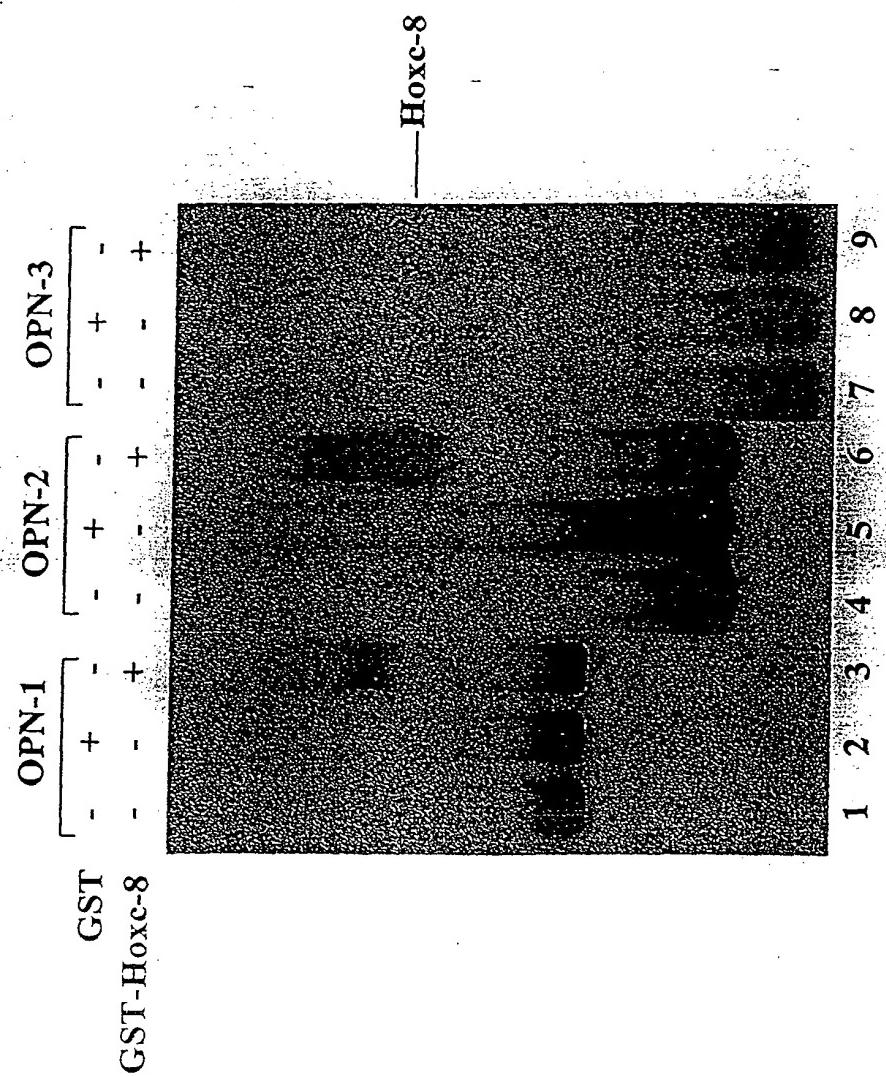
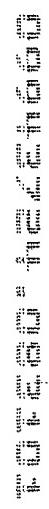
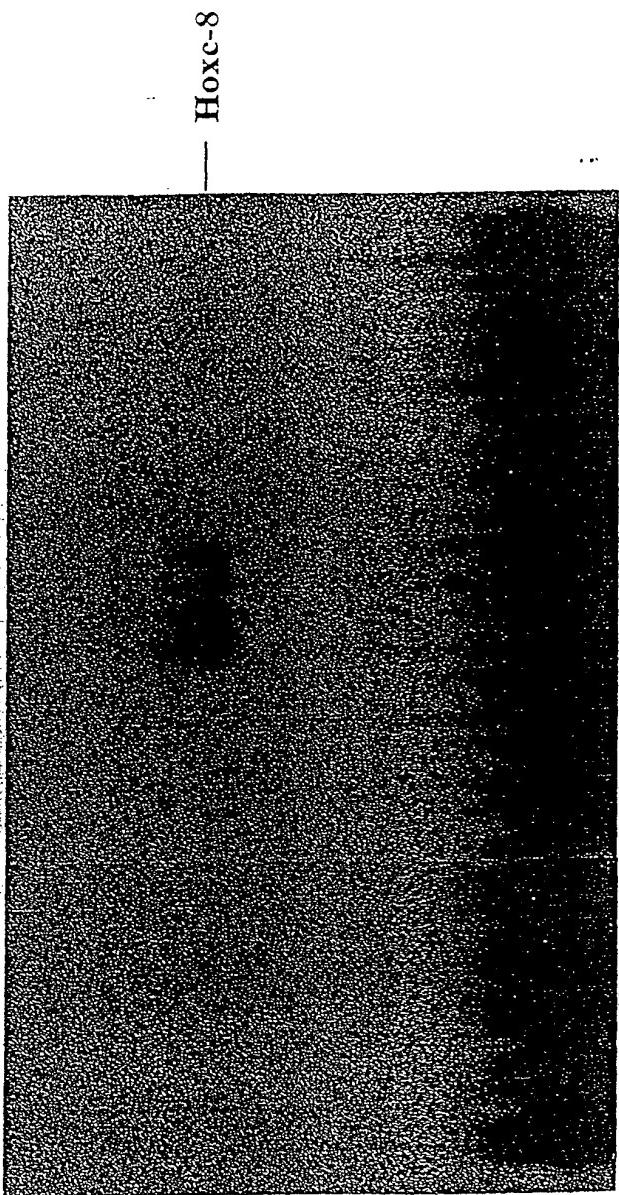


FIGURE 3B

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

FIGURE 3C



	OPN-4			OPN-5			OPN-6				
	-	+	-	-	+	-	-	+	-	-	-
GST	-	+	-	-	-	-	-	-	-	-	-
GST-Smad1	-	-	+	+	-	+	-	-	+	-	+
GST-Hoxc-8	-	-	+	+	-	-	+	+	-	+	+

FIGURE 3D

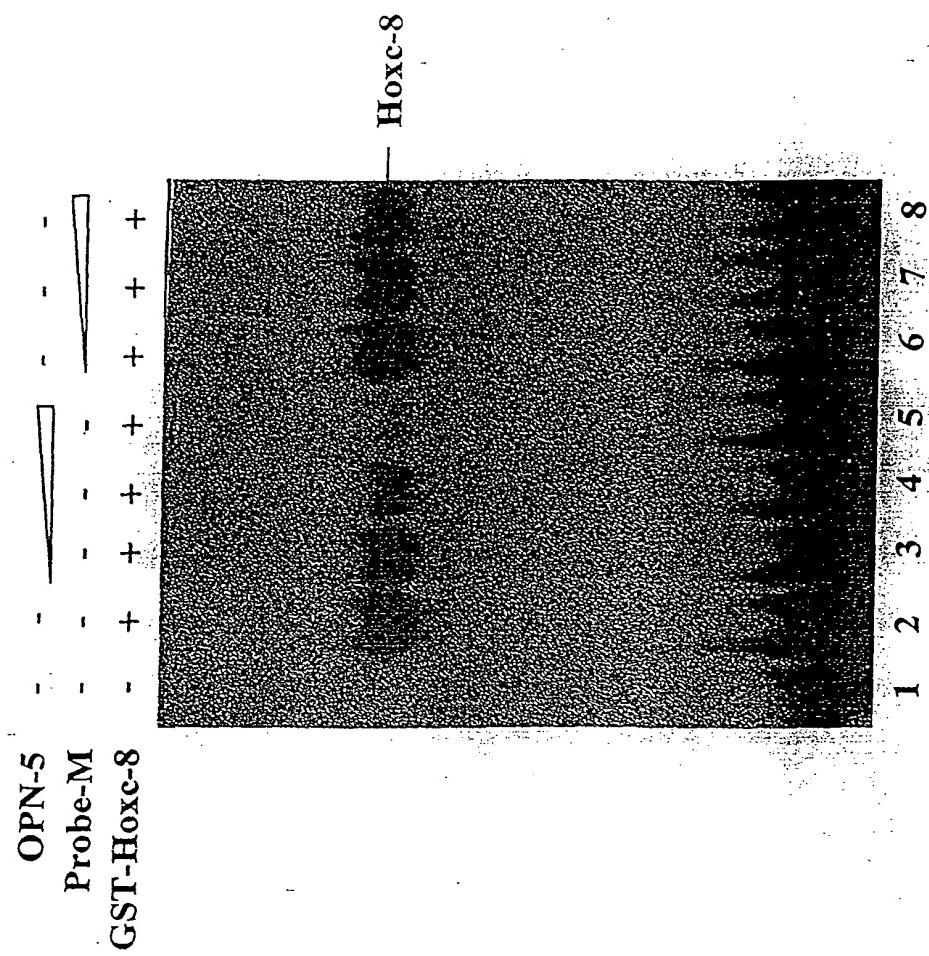


FIGURE 3E

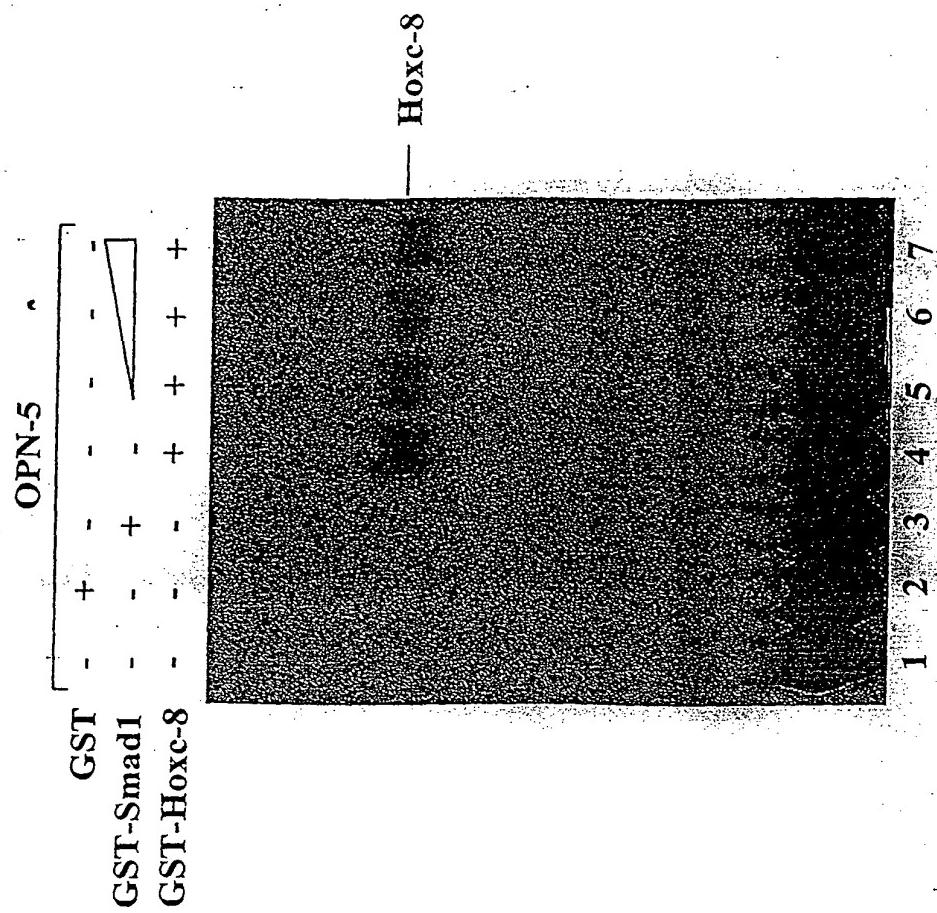


Figure 3F: Gel electrophoresis analysis of protein-protein interactions.

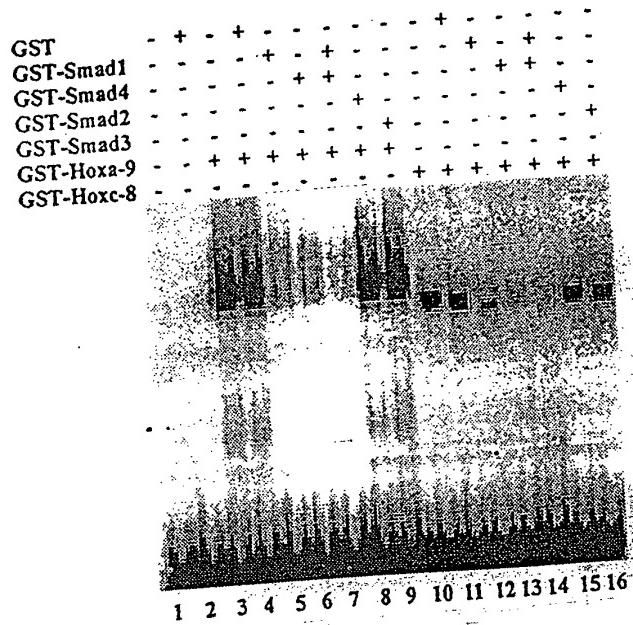
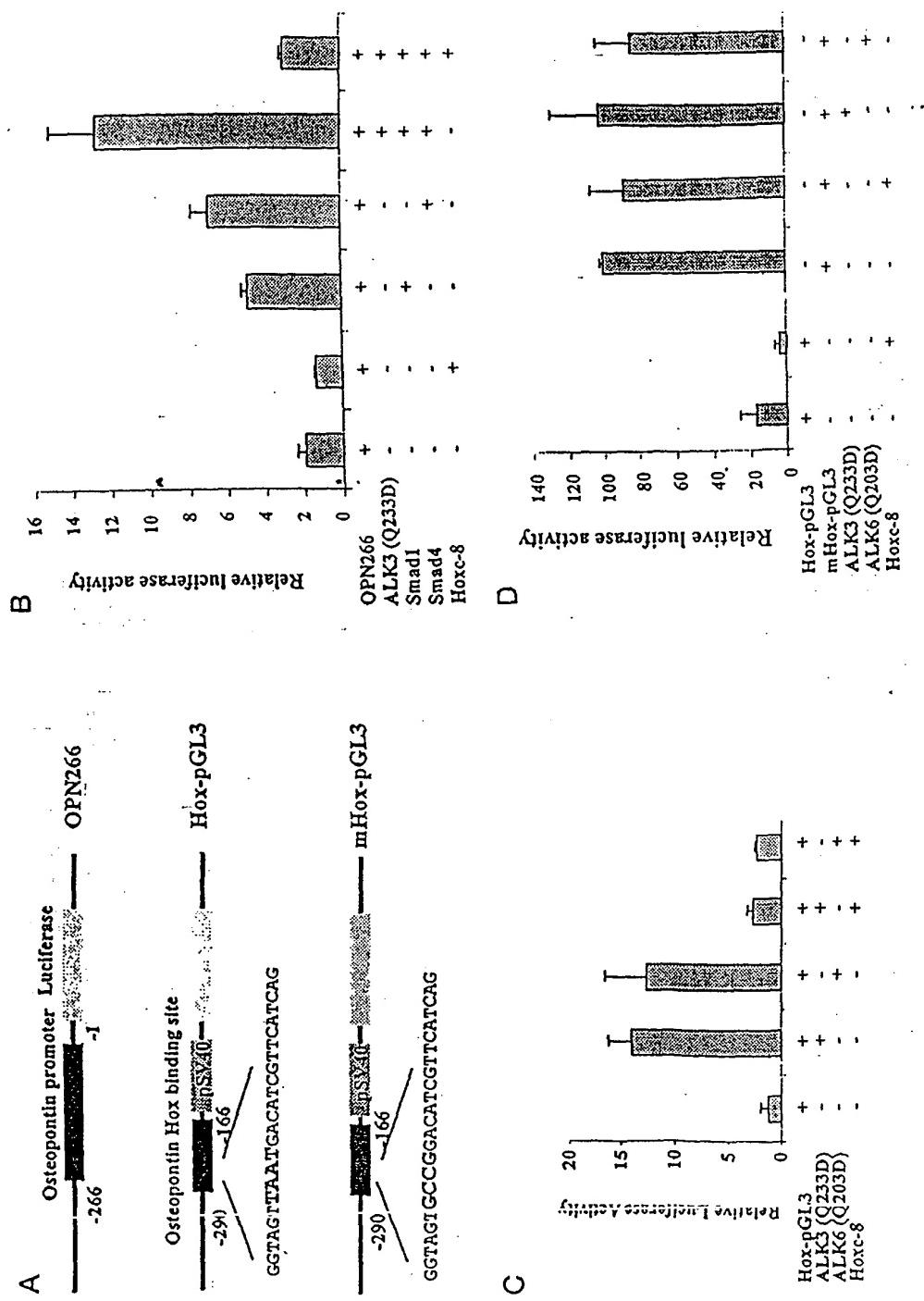


FIGURE 3F

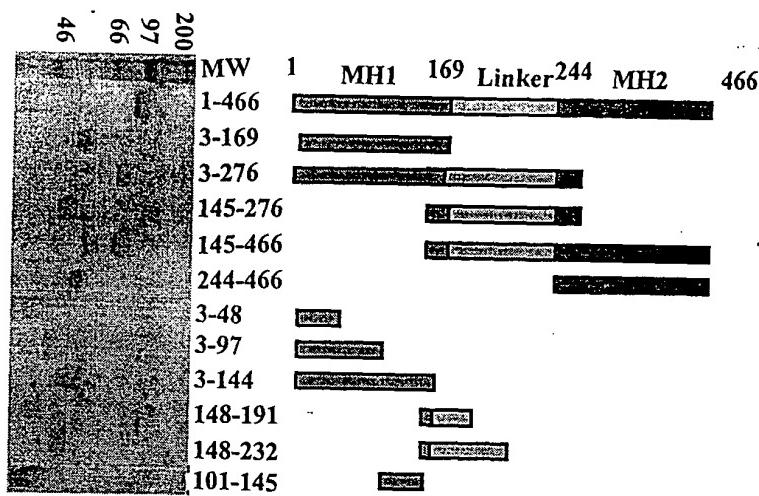
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
GST	+	-	-	-	-	-	-	-	-	-	-	-	-	-
GST-Smad1	-	-	-	-	+	-	-	-	-	-	-	-	-	-
GST-Smad2	-	-	-	-	-	+	-	-	-	-	-	-	-	-
GST-Smad3	-	-	-	-	-	-	+	-	-	-	-	-	-	-
GST-Smad4	-	-	-	-	-	-	-	+	-	-	-	-	-	+
GST-MSX1	-	-	+	+	+	+	+	-	-	-	-	-	-	-
GST-MSX2	-	-	-	-	-	-	-	-	+	+	+	+	+	+

FIGURE 3G

FIGURE 4A - 4D



A



B

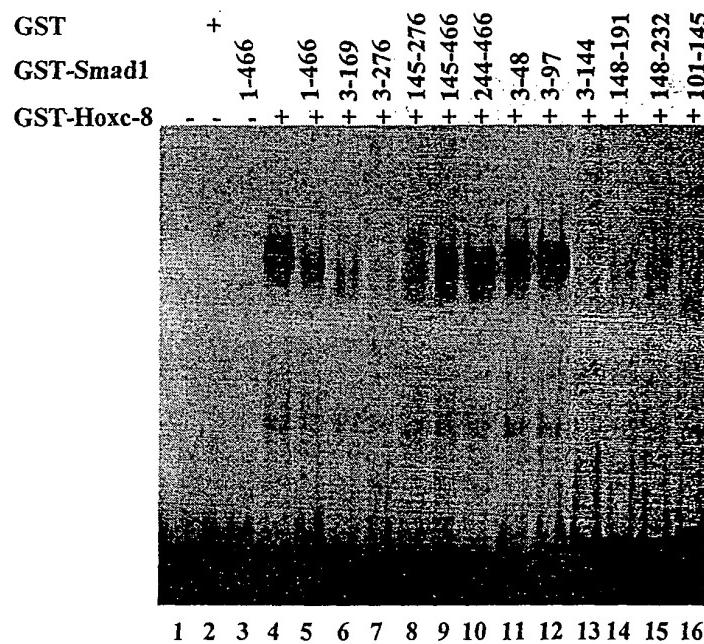


FIGURE 5A + 5B

1 2 3 4 5 6 7

C

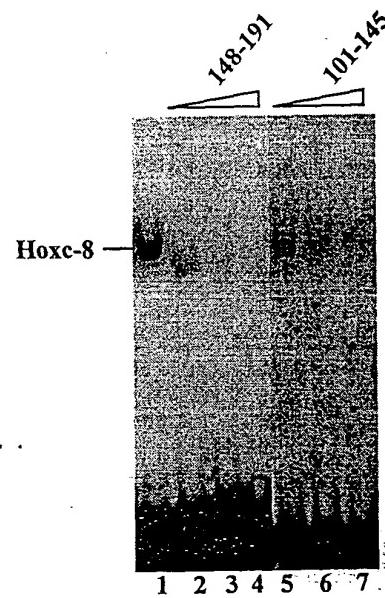
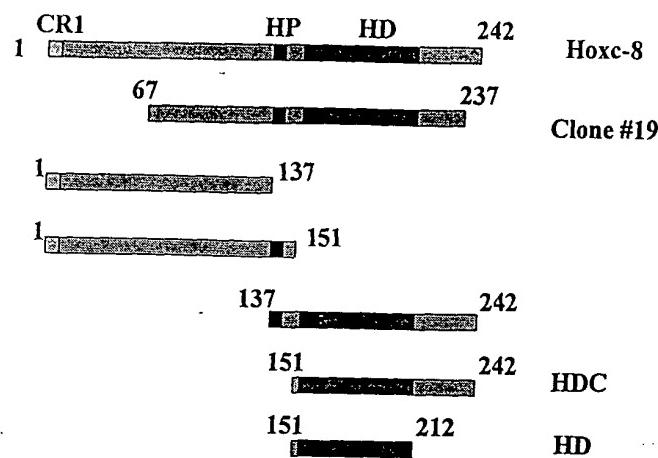


FIGURE 5C

A



B

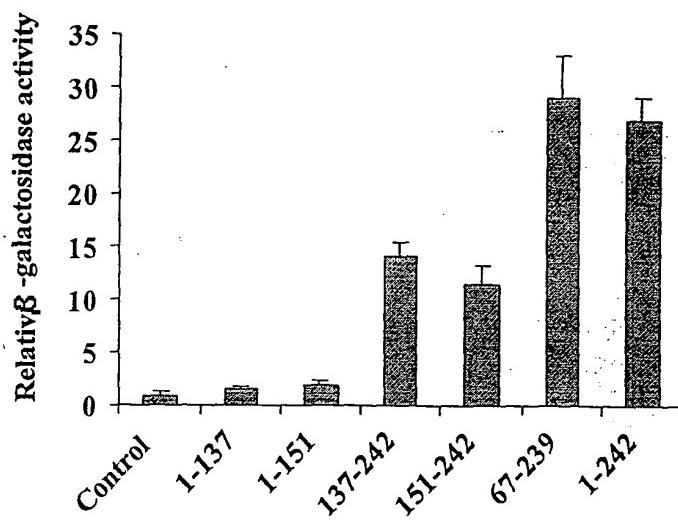


FIGURE 6

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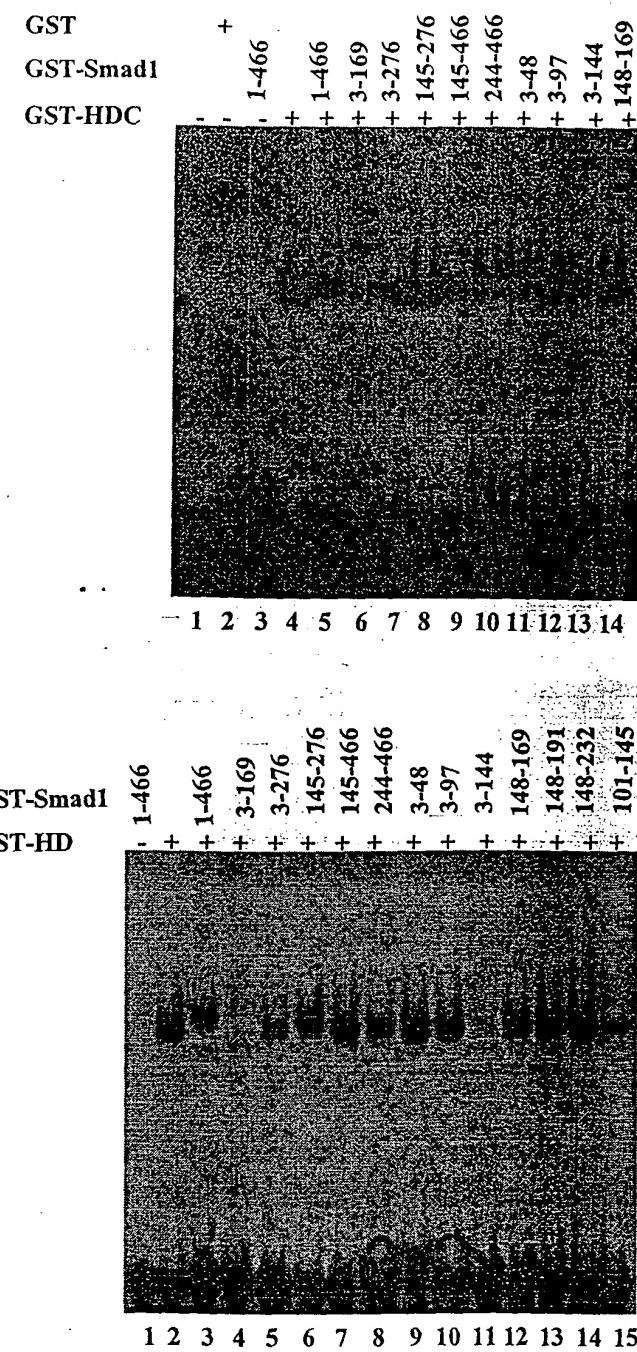
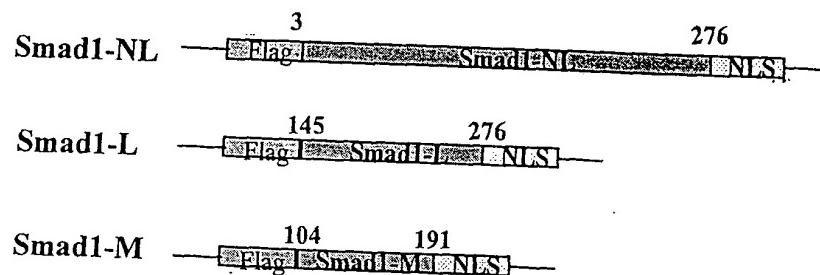


FIGURE 6

A



B

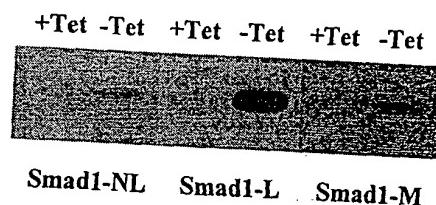
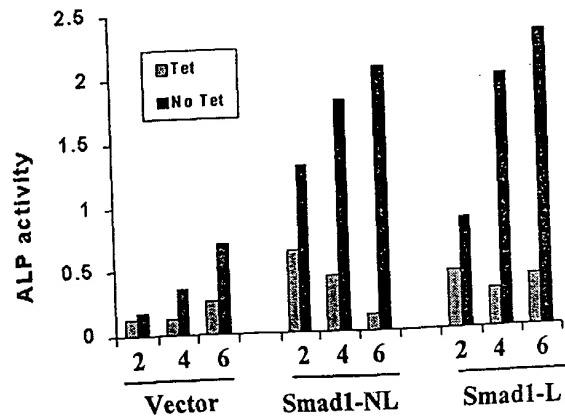


FIGURE 7A + 7B

C



D

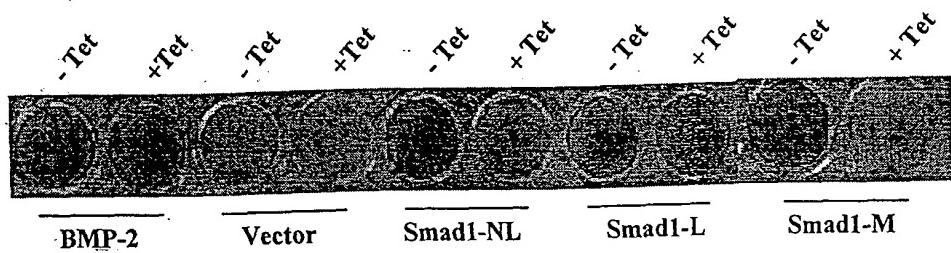


FIGURE 7C + 7D

Figure 8 shows the relative ALP activity for various Hox genes under (-)BMP and (+)BMP conditions.

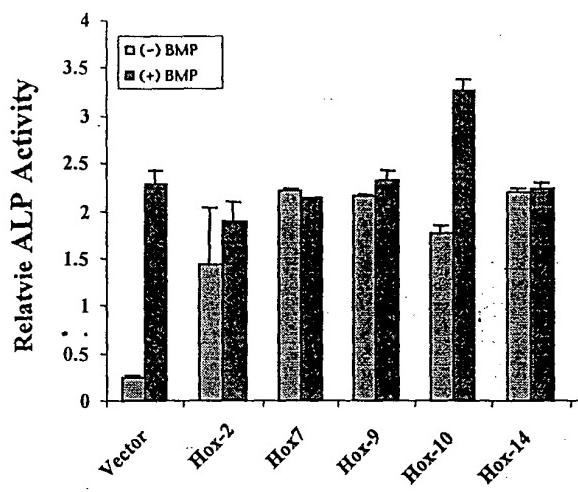


FIGURE 8

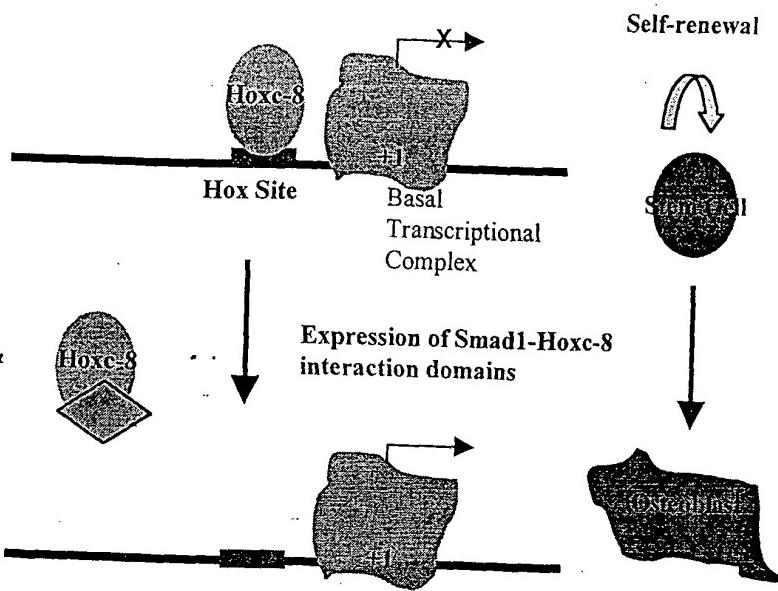


FIGURE 9